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(71)Applicant: MEDEI SCI PURANINGU:KK

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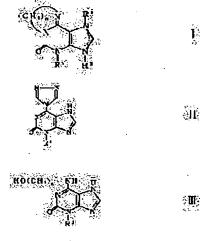
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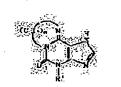
(54) NEW PURINE DERIVATIVE AND MEDICINAL COMPOSITION COMPRISING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new purine derivative, having an oxo group and a specific condensed ring group at specified sites, capable of selective inhibiting actions on cyclic adenosine 3',5'-monophosphate (AMP)-specific phosphodiesterases and useful as a bronchodilator or a therapeutic agent for osteopathy.

SOLUTION: This compound is represented by formula I [R1 to R3 are each H, a (lower alkyloxy or acyl-substituted) 1–6C alkyl; (n) is 2–4], e.g. 4– propyl-4,5,7,8–tetrahydro-1H–imidazo[1,2-i]purin-5-one. The compound represented by formula is obtained by reacting, e.g. a compound represented by the formula HO(CH2)nNH2, providing a compound represented by formula III, then reacting the resultant compound with triethylamine and methanesulfonyl chloride, affording a compound represented by formula IV and subsequently reacting the prepared compound with a compound represented by the formula n-R3Br.







LEGAL STATUS

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JP10158267 A **NEW PURINE DERIVATIVE AND MEDICINAL COMPOSITION** COMPRISING THE SAME MEDEI SCI PURANINGU:KK

Abstract:

PROBLEM TO BE SOLVED: To obtain a new purine derivative, having an oxo group and a specific condensed ring group at specified sites, capable of selective inhibiting actions on cyclic adenosine 3',5'monophosphate (AMP)-specific phosphodiesterases and useful as a bronchodilator or a therapeutic agent for osteopathy. SOLUTION:

[loading drawing]

This compound is represented by formula I [R¹to R³are each H, a (lower alkyloxy or acyl- substituted) 1-6C alkyl; (n) is 2-4], e.g. 4- propyl-4,5,7,8tetrahydro- 1H-imidazo[1,2-i]purin-5-one. The compound represented by formula is obtained by reacting, e.g. a compound represented by formula II with a compound represented by the formula HO(CH₂)_nNH₂, providing a compound represented by formula III, then reacting the resultant compound with triethylamine and methanesulfonyl chloride, affording a compound represented by formula IV and subsequently reacting the prepared compound with a compound represented by the formula n-R ³Br.

inventor(s):

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Patents Citing This One (5):

US6489331 B1 20021203 Kyowa Hakko Kogyo Co., Ltd.

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